

Model:A-1060  
8DI,4DO Remot I/O Modules  
User's Manual



## 1. Description

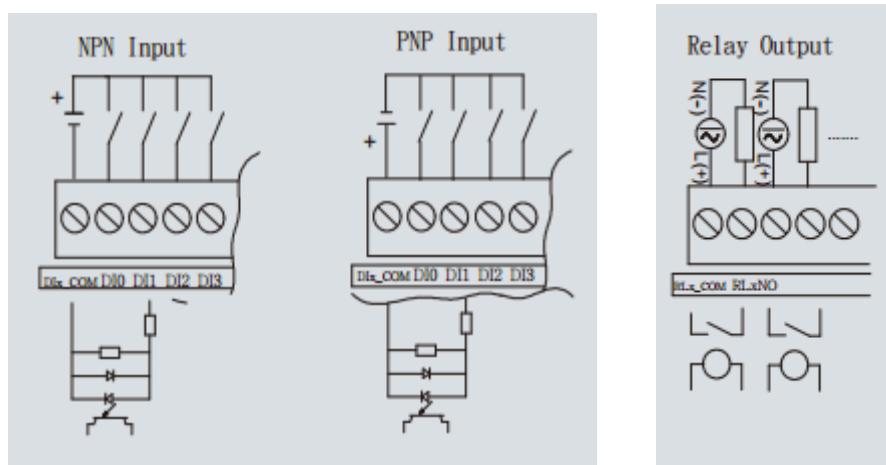
Input::8DI (PNP/NPN), Logic Level0:+1VDC

Logic Level1:+3.5~30VDC

Output:4DO(Power Relay Output)

Power supply:10~30VDC

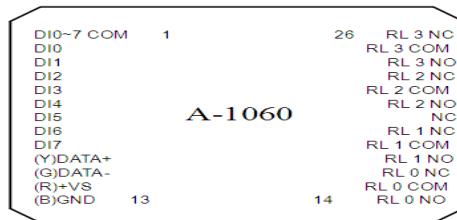
Diagram:



## 2. Features

- RS-485 Interface
- Supports Modbus RTU / ASCII
- LED Indicators
- Isolation voltage: 5000 V DC
- Wide operation temperature : -20 ~ +75 °C
- Dual watchdog timer
- Surge , EFT and ESD protection
- Free PC software "Yotta Utility"

### 3. Pin Assignment



Item	Pin	Description	Item	Pin	Description
1	DI0~7 COM	Input common(+/-)	26	RL 3 NC	normally closed contact
2	DI0	Input channel 0	25	RL 3 COM	Relay output common
3	DI1	Input channel 1	24	RL 3 NO	normally open contact
4	DI2	Input channel 2	23	RL 2 NC	normally closed contact
5	DI3	Input channel 3	22	RL 2 COM	Relay output common
6	DI4	Input channel 4	21	RL 2 NO	normally open contact
7	DI5	Input channel 5	20	NC	No Use
8	DI6	Input channel 6	19	RL 1 NC	normally closed contact
9	DI7	Input channel 7	18	RL 1 COM	Relay output common
10	(Y)DATA+	RS-485 +	17	RL 1 NO	normally open contact
11	(G)DATA-	RS-485 -	16	RL 0 NC	normally closed contact
12	(R)+VS	+10~30VDC	15	RL 0 COM	Relay output common
13	(B)GND	GND	14	RL 0 NO	normally open contact

### 4. Hardware Installation

Connect an twisted-pair cable to A-1060 unit if connecting to a converter or direct to the PC(RS-485) as figure1.

Connect the power adapter to A-1060 and other apply power. Power from other device.(+10--+30VDC).

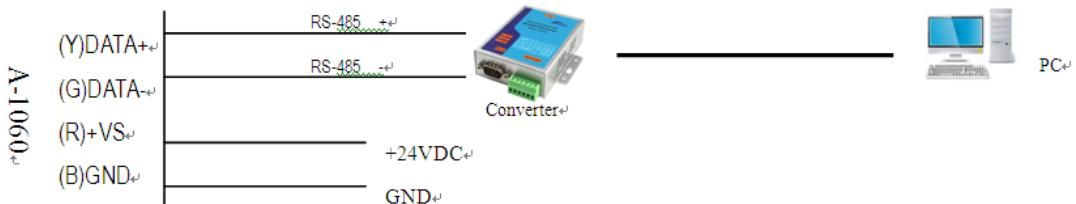


Figure 1

### 5. Software Configure

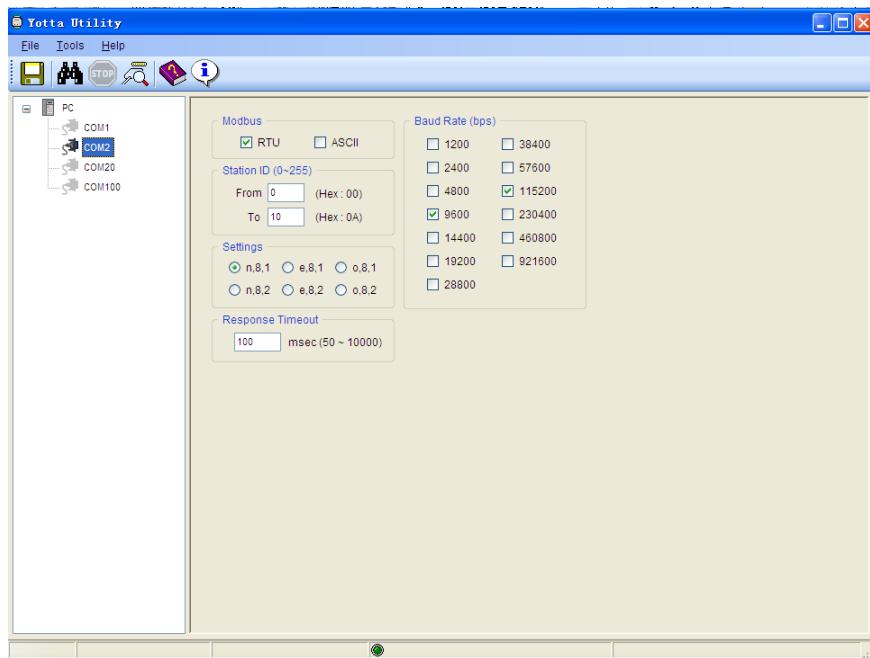
Install Yotta Utility.

Note: Be sure you have administrative rights & disable firewalls in windows XP.

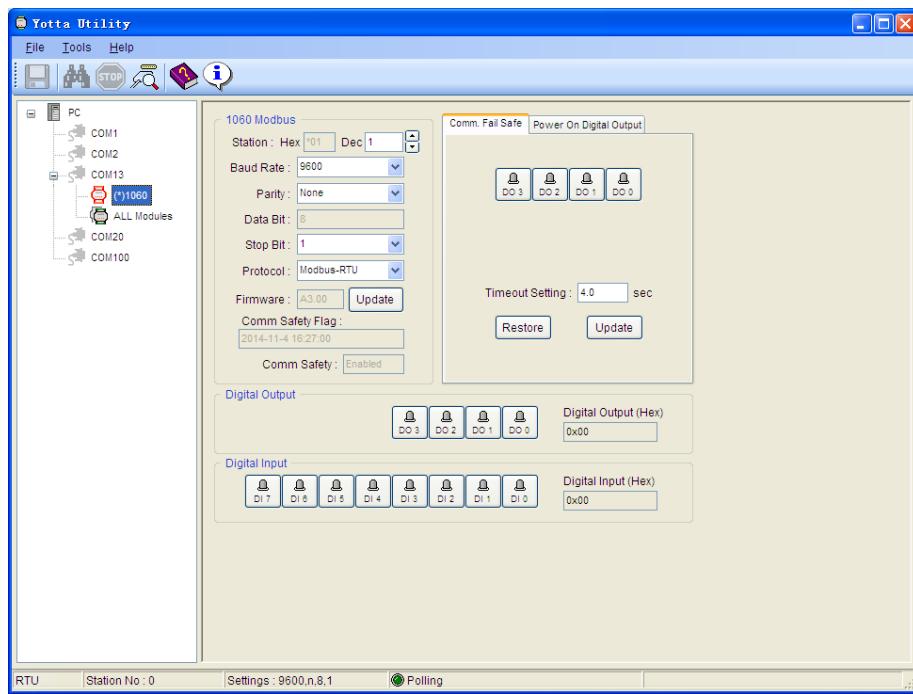
Be sure you have connect the A-1060.

In the meantime , find the switch at the bottom of A-1060, then turn the switch to Init.

Then open the software Yotta Utility.



Choose the COM correctly, click the search button. You can meet this page.



In the Init mode , all of the module's parameters and relative values can be set .

If you want to get the technical data in more detail ,please reference the contents of Yotta Utility.

### Normal Mode

If you turn the switch to Normal , A-1060 will run normally . In this mode , A-1060's parameters and relative values cannot be set .

Note: If you change the switch(Init/Normal) , A-1060 must be powered off and re-up electricity . Otherwise the state of A-1060 wouldn't change.

## 6. ModBus Address Mapping

Supported ModBus Code: 01/02/05/15(Readable & writable in normal & Initial mode) R :readable W :writable

Address	Description	Normal	Init	Note(value)
00001~00008	DIO-7 Input Value	R	R	(0/1)
00017~00020	DO0~4 Output Value	R/W	R/W	(0/1)
00033~00036	DO0~4 Power On Output Value	R	R/W	(0/1)
00049~00052	DO0~4 Communication Fail Safe Value	R	R/W	(0/1)

Supported ModBus Code: 03/04/06 (Readable & writable in normal & Initial mode) R :readable W :writable

Address	Description	Normal	Init	Note(value)
40065	Communication Fail Safe Time Setting Value	R	R/W	0.0~6553.5 sec
40223	Module internal temperature	R	R	
40224	Module History temperature (Min) °C	R	R	
40225	Module History temperature (Max) °C	R	R	

Supported ModBus Code: 03/04/06 (Readable & writable in normal & Initial mode) R :readable W :writable

Address	Description	Normal	Init	Note(value)
40300	Module's ID in normal mode	R	R/W	1~255
40301	Protocol in normal mode	R	R/W	0 : RTU 1 : ASCII
40302	Baud rate in normal mode	R	R/W	
40303	Parity option in normal mode	R	R/W	0 : None 1 : Odd 2 : Even
40304	Stop bits in normal mode	R	R/W	0 : 1 bit 1 : 2 bit
40305	Normal Mode Time Out Setting	R	R/W	0~65535 msec